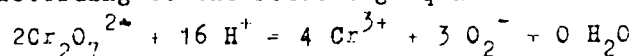


SCV/78-3-8-23/48

The Dependence of the Stability of Some Oxygen Containing Inorganic Compounds on the pH-Value of the Medium

composition rate increases, on a further increase of the concentration to 30 N it decreases, and on another increase of the concentration it increases again. The investigation of the stability of potassium bichromate shows that the decomposition of this oxidizing agent under the action of sulfuric acid takes place according to the following equation:



The decomposition rate of this reaction was investigated in 16,5-, 19,8-, 23,1- and 33,2 N-sulfuric acid solutions. The results obtained show that at room temperature potassium bichromate is relatively resistant to the action of sulfuric acid. The stability of the oxidizing agents at boiling temperatures was investigated. The oxygen containing oxidizing agents with regard to their resistance to sulfuric acid must be classified as follows: KJO_3 , $\text{K}_2\text{Cr}_2\text{O}_7$, KClO_3 , KBrO_3 , NaClO and NaClO_2 . Potassium permanganate does not take any fixed place among these oxidizing agents.

Card 2/3

SOV/78-3-8-23/48

The Dependence of the Stability of Some Oxygen Containing Inorganic Compounds
on the pH-Value of the Medium

Based on the results obtained on the resistance of the oxidizing
agents mentioned above to the action of sulfuric acid the qualitative
analysis of certain mixtures of these oxidizing agents
can be carried out.

There are 9 figures and 22 references, 17 of which are Soviet.

ASSOCIATION: Kiyevskiy politekhnicheskii institut (Kiyev Polytechnical
Institute)

SUBMITTED: July 8, 1957

Card 3/3

AUTHORS: Epik, P.A., Orochko, A.I.

32-24-4-12/67

TITLE: The Determination of Chlorites and Hypochlorites in Their
Mixture (Opredeleniye khloritov i gipokhloritov v ikh smesi)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 413-415 (USSR)

ABSTRACT: As determinations with arsenic- and platinum preparations cause certain difficulties, the endeavor was made to find other reducing substances for these investigations. Experiments were made with bivalent cations of cobalt, nickel, and manganese, as well as with hydrogen peroxide, in which mixtures of pure chlorite and hypochlorite were used as 0.1 - 0.2n solutions. Experimental results for cobalt (II) and nickel (II) ions showed that they are unsuited for the required determination. When evaluating the influence exercised by the alkaline medium upon the course of the reduction of hypochlorite by manganese (II) it was found that the interval $8.2 < \text{pH} < 10.2$ must be considered an optimum for the reduction of hypochlorite beside chlorite. Hydrogen peroxide was used with an alkalinity of 0.2 - 0.5n lye, which was found to be

Card 1/2

The Determination of Chlorites and Hypochlorites
in Their Mixture

32-24-4-12/67

an optimum. As a buffer solution in the case of manganese (II) sodium bicarbonate or Na_2HPO_4 was used, but the latter slowed down filtration. The suggested volumetric methods of determination can also be used for separating chlorite from hypochlorite and for a quality reaction on chlorite beside hypochlorite. There are 2 figures, 2 tables, and 2 references, 2 of which are Soviet.

ASSOCIATION: Kiyevskiy politekhnicheskii institut (Kiyev Polytechnic Institute)

1. Chlorates---Determination
2. Cobalt ions---Chemical effects
3. Nickel ions--Chemical effects
4. Hydrogen peroxide
--Chemical effects

Card 2/2

OROCHKO, A.I.; EPIK, P.A.

Analysis of mixtures of some halogen compounds. Zav.lab. 29 no.12:1431-1432 '63. (MIRA 17:1)

1. Kiyevskiy politekhnicheskii institut.

The catalytic synthesis of phenylated pyridines from aldehydes and ketones with ammonia. A. F. CHURCHMAN AND D. I. (CHURCH), J. Russ. Phys. Chem. Soc. 62, 1201-8(1930); cf. C. A. 24, 2495. — BaH^+ (I) and PbCH_3^+ CHCH_3 (II) react with AcCl and NH_3 at 305–10° with alumina or kaolin catalyst to give a mixt. of α -phenylpyridine (III) and γ -phenylpyridine (IV); I with AcMe and AcCH_3 CHPh (V) with AcMe give α,α -dimethyl- γ -phenylpyridine (VI). I and II with AcCl and NH_3 in sealed tubes at 150–220° give only tar and no $\text{C}_8\text{H}_9\text{N}$ deriva. The alumina catalyst was prepd by pptg. a boiling $\text{Al}(\text{SO}_4)_3$ soln. with NH_4OH , washing, drying and heating the product slightly. The kaolin should be of dense structure, low in Fe and of glistering rather than greasy fracture. The syntheses are carried out in a porcelain tube 10 cm long and 10 mm in diam., filled up to 80 cm. with catalyst. In the prepn of III and IV from I and II the following procedure was used: Add 10% HCl to the reaction mixt. consisting of an olv and an aq. layer, ext. the neutral products with K_2O , add NaNO_2 to the residue, decomp. the nitroso deriva. with NaOH , dissolve the free bases in K_2O , dry, evap. the

CIA-RDP86-00513R001238

Et₂O and fractionate. Fraction A, b. 270-80°, yielded some IV by spontaneous crystn. which was recrystd. twice from petr. ether. The combined mother liquors were evapd. to remove the solvent and again fractionally distd. The distillate was dissolved in EtOH, from which III and IV were isolated as picrates, and recrystd. from boiling AcMe. Fraction B, b. 285-340°, yielded a small quantity of IV isolated through the picrate. The yield of III from I was 3.5%, from II, 1%, of IV from I, 11%, from II, 10%. The procedure for the prepn. of VI follows: The reaction mixt. was acidified with 15% HCl, the neutral products were extrd. with Et₂O, and the residue was cooled for 2 hrs. Sepn. of crystals and a viscous oil followed. The crystals are sol. in EtOH and AcMe, insol. in PhH and Et₂O. Upon addn. of AcOH to the EtOH soln. to slight turbidity the HCl salt of VI was obtained and recrystd. from boiling Et₂O. The acid mother liquors were made alk. and extrd. with Et₂O. After drying and evapg. the Et₂O, the free base was fractionated. The fraction b. 280-95° was treated with 15% HCl in EtOH, and AcOEt added. Recovery of VI from the combined HCl salts with recrystn. from petr. ether gave a product m. 62-63.5°. The yield of VI from I was 13%, from V, 15.6%.

Lawis W. Burr

ca 72

Hydrogenation and the petroleum industry. D. I. Orzhikh, A. V. Agalimov and Ya. I. Zarsadakhvili. *Nefteyano Khimichesko* 27, No. 1, 62-6(1935). - A general discussion on hydrogenation of petroleum products is presented and the importance of constructing com. hydrogenation plants in Russia is stressed. A. A. Bozhilinsk

ASS. SLA METALLURGICAL LITERATURE CLASSIFICATION

TEST AND PROPERTIES INDEX										PROCESSES AND PROPERTIES INDEX										TEST AND PROPERTIES INDEX									
<p>113. CONVERSION OF NORMAL PARAFFINS TO HIGH-OCTANE GASOLINE. Larin, A. Y., Greshko, D. L. and Frost, A. V. (Neftyance Khos., 1946, 24, (12), 21-6; Chem. Abstr., 1947, 41, 6394). Data available in the literature on the catalytic cracking of paraffinic and naphthenic stocks (individual hydrocarbons or gas oils) by various known processes are tabulated and discussed for possible use in the processing of distillates from Devonian crude oils. The latter appear to be adapted for the manufacture of butadiene by fluid-type catalytic cracking followed by conversion of the cracked gases.</p>																													
<p>ADD 55 A METALLURGICAL LITERATURE CLASSIFICATION</p>																													

ORCHKO, L. I. and ZINOV'YEV, A. F.

"Principles of Control of Reaction Equipment for Hydrogenation of Plastics"
Transactions of the All-Union Scientific Research Institute of Synthetic Liquid
Fuel and Gas, Moscow, Gostoptekhnizdat, 1957, volume II.

GROCHKO, D. I.; KARZHEV, V. I.; and KHEYFETS, Ye. M.

"Catalytic Aromatization of Gasolines", Transactions of the All-Union Scientific Research Institute of Synthetic Liquid Fuel and Gas, Moscow, Gostoptekhnizdat, 1950, volume II.

CROCHKO, D. I. and VOYTEKHOV, A. A.

"Thermal Effects of Aromatization of Gasolines and Ligroins" Transactions
of the All-Union Scientific Research Institute of Synthetic Liquid Fuel and
Gas, Moscow, Gostoptekhnizdat, 1957, volume II.

OROCHKO, D. I.

"Chemical Kinetics of Commercial Catalytic Processes" Transactions of the
All-Union Scientific Research Institute of Synthetic Liquid Fuel and Gas,
Moscow, Gostoptekhnizdat, 1957, volume 11.

GROCHKO, D. I. and MASINA, M. P.

"Catalytic Aromatization of Synthetic Gasoline and Its Mixtures with Cyclohexane".
Transactions of the All-Union Scientific Research Institute of Synthetic Liquid
Fuel and Gas, Moscow, Gostoptekhnizdat, 1950, volume II.

ORCHIKO, D. I.

"Theoretical Fundamentals of the Syntheses of Engine Fuels." Sub 27 Jun 51,
Moscow Order of the Labor Red Banner Petroleum Inst ineni Academician I. M. Gubkin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

OROCHKO, D.I

OBRYADCHIKOV, S.N.; OROCHKO, D.I.; ZINOV'YEVA, A.P.

[Petroleum technology] part 2. Tekhnologiya nefi. Izd. 3-e, perer. i dop. Pod red. i s dopolneniyami D.I. Orochkogo. Moskva, Gos. nauchno-tekhn. izd-vo nefianoi i gorno-toplivnoi lit-ry. 1952. 408 p.

(MLRA 7:3)

(Petroleum--Refining)

OROCH, D. I.

USSR/Chemistry - Reaction Kinetics

1 b 53

"Concerning the Calculation of Rates of Chemical Reactions Taking Place in a Current," D.I.Oroch

Zhur Fiz Khim, Vol 27, No 2, pp 285-293

Problems of chemical kinetics become more closely related to chem technology as the level of contemporary technology rises. The principal conditions necessary for the soln of kinetic problems are:
(a) basing them on unique laws established by expt; (b) selection of the dimensions of principal

268724

variables in such a manner that the phys meaning expressed by them is correctly represented;
(c) use of eqs suitable for theoretical and practical calcs. USSR work on reactions in currents is discussed in detail from this standpoint.

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OROCHKO, D. I.

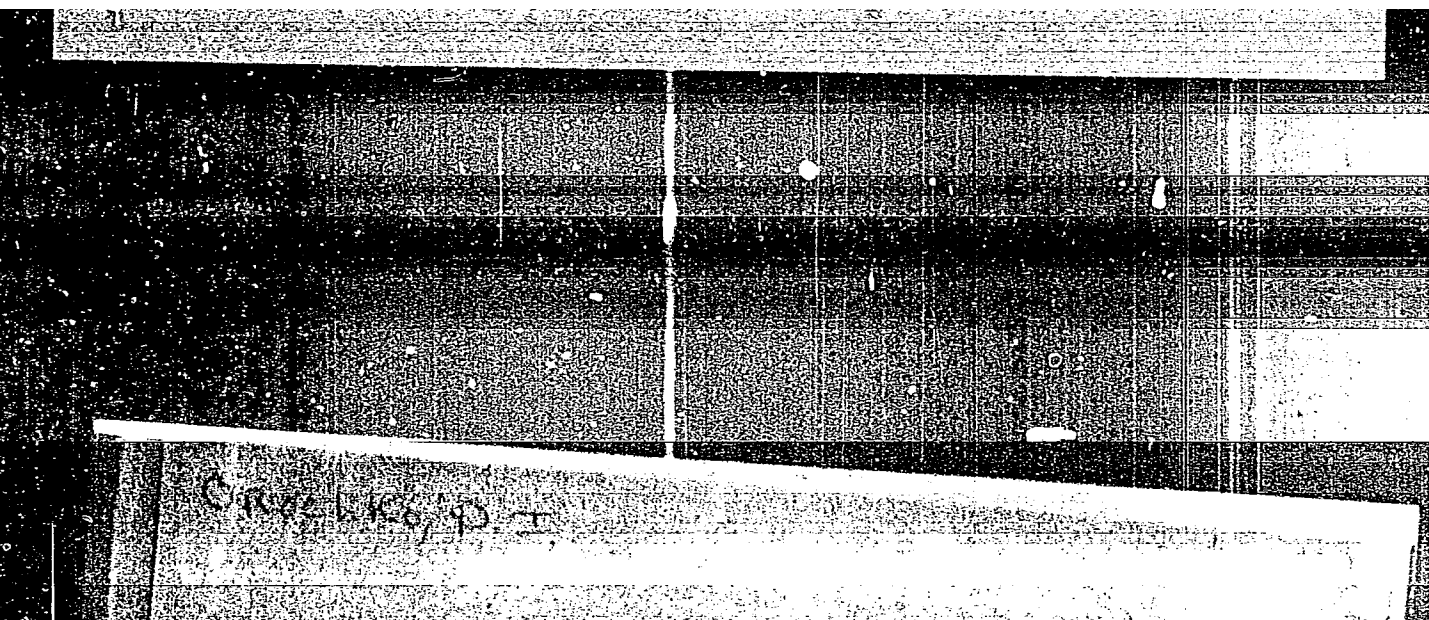
The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Orochko, D. I.	"Theoretical Elements of the Practical Synthesis of Liquid Fuels"	Ministry of the Petroleum Industry

SC: W-30604, 7 July 1954

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238



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APPROVED FOR RELEASE: Wednesday, June 21, 2000

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ORCHKO, D. I.

ORCHKO, D. I., FROST, A. V., AND SHCHEKIN, V. V.

The Effect of Nitrogen and Oxygen Compounds on the Cracking Process with
Aluminum Silicate Catalyst

Trudy VNIGI, No 6, 1954, pp 105-113

Selected some typical oxygen- and nitrogen-containing compounds and investigated their effect on the cracking process. The presence of pyridine bases and quinoline sharply reduces the total rate of conversion and gasoline yield, but increases the amount of coke formation. The presence of phenols had little effect on the cracking process except to increase the amount of coke formation on the catalyst. (RZhKhim, No 21, 1954)

SO: Sum. No. 639, 2 Sep 55

SIL'CHENKO, Ye. I.; KAREHEV, V. I.; OROCHKO, D. I.; VAVUL, A. Ya.; ROBO-
ZHEVA, Ye. V.; BIRMAN, M. I.; SHAVOLINA, N. V.; MASINA, M. P.; GON-
CHAROVA, N. V.

In memory of Mariia Sergeevna Sudzilovskaia. Trudy VNIIGI no. 6:
146-158 '54. (MLRA 7:11)
(Sudzilovskaia, Mariia Sergeevna, 1904-1953)

OROCHKO, D. I.

RAPOPORT, Iosif Borisovich, professor, doktor khimicheskikh nauk;
GOYKHRAKH, I.M., redaktor; YERSHOV, P.R., redaktor; KARZHEV, V.I.,
doktor tekhnicheskikh nauk, retsenzent; OROCHKO, D.I., doktor
tekhnicheskikh nauk, retsenzent; TROPINOV, A.V., tekhnicheskii
redaktor

[Synthetic liquid fuel; chemistry and technology] Iskusstvennoe
zhidkoe toplivo; khimiia i tekhnologiya. 2-e, perer. i dop. izd.
Moskva, Gos.nauchno-tekhn. izd-vo nefianoi i gorno-toplivnoi
lit-ry, 1955. 546 p.

(Liquid fuels)

(MLRA 9:3)

OROE H KO, D.I.

USSR .

✓ 1928. FUEL AND CHEMICAL LINE OF DEVELOPMENT FOR PETROLEUM PROCESSING
INDUSTRY. Makarov, S.K., Orochko, D.I., Ponomarev, L.A., and
Tereguinov, D.K. (Neff. 1958, (Oil Ind., Moscow), Feb. 1955, 67-71). The
most profitable line of development for the U.S.S.R. oil industry is seen in

The production, in addition to fuels and lubricants, of large quantities
of butadiene, ethyl alcohol, fatty acids and detergents.
Hydrogenation should help to increase utilization of the crude but the
production of hydrogen needs to be made cheaper by the use of new
methods of treating refinery wastes. (L).

3
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OROCHKO, D.I.

Problems of chemical kinetics in industry. Khim.i tekhn.tepl.no.8:
1-8 Ag '56. (MIRA 9:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut Neftyanoy pro-
myshlennosti.
(Chemical engineering) (Chemical reactions)

ORO CHKO, D.I.

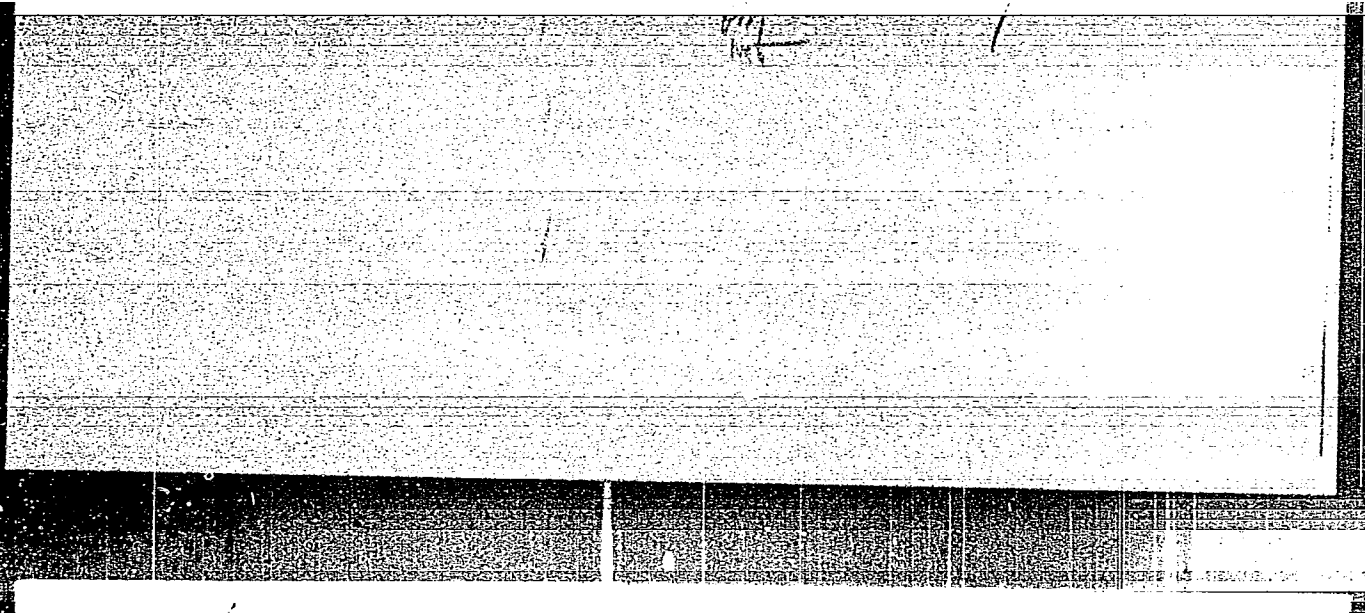
GONCHAROVA, N.V.; VOYTEKHOV, A.A.; KARZHEV, V.I.; OROCHKO, D.I.

Indirect methods for determining relative activity of catalysts.
Khim. i tekhn. topl. i masel no.3:7-14 Mr '57. (MIRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotki
nefti i gaza i polucheniya iskusstvennogo zhidkogo topliva.
(Catalysts)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

65-12-1/9

On a Step-wise Counter-current Method of Contacting Fine-grain Solid Materials with Gases and Vapours in Heterogeneous Chemical Processes.

2) methylation of pentenes with methyl chloride over fine-grained magnesium oxide; 3) two-stage generation of water gas from powdered petroleum coke, and 4) catalytic cracking of petroleum distillates. Experimental results indicated that under step-wise counter-current conditions, a considerable intensification of the process takes place, in comparison with the intensification obtained with ordinary sectioning of the reaction zone or a single counter-current of reagents. Studies of oxidation-regeneration of active alumino-silicates were carried out by the authors together with N.A. Chernov; experiments in step-wise counter-current regenerators with I.I. Mukhin and V.A. Basov; analytical treatment of experimental data with A.P. Zinov'yeva. In the work on gasification of petroleum coke, the following engineers participated: A.L. Serebrennikova, V.S. Kazina, A.F. Revzin and R.S. Ayzenson, and in the investigation of catalytic cracking of petroleum distillates S.V. Andel'son and N.v. Chepurov. The paper was presented at the All-Union Conference on Processes in a Fluidised Bed, May 29, 1957. There are 6 figures and 27 references, 19 of

Card2/3 which are Slavic.

ASSOCIATION: VNII NP

65-12-1/9

On a Step-wise Counter-current Method of Contacting Fine-grain Solid
Materials with Gases and Vapours in Heterogeneous Chemical Processes.

AVAILABLE: Library of Congress

Card 3/3

Orochko, D. I

AUTHORS: Orochko, D.I; Melik-Akhnazarov, T.Kh; and (65-2-4/12
Poluboyarinov, G.N.

TITLE: Stage-Wise Counter-Current Contact Apparatus with
Fluidised Bed of Fine-Grained Materials. (Stupenchato-
protivotochnyye kontaktnyye apparaty s "kipyashchimi
sloyami" melkozernistyykh materialov).

PERIODICAL: Khimiya i Tekhnologiya Topliva i Masel, 1958. Nr.2.
pp. 22 - 28. (USSR).

ABSTRACT: Applications and designs of stage-wise counter-current
fluidised bed contact apparatus, described in Soviet
and foreign literature, are reviewed. It is pointed
out that multi-plate contacting apparatus with fluidised
layers should satisfy the following conditions: they
should provide an uninterrupted flow of granular
material and of the gas which can be controlled within
wide limits; a constant height of the fluidised layer
should be maintained on each plate; and the overflow
of the fluidised material should be carried out through
a secure hydraulic seal, i.e. the gas current should
not leak through the overflow of the granular material.
The design of the overflow, proposed by one of the
authors to VNII NP, which maintains automatically a
constant height of the fluidised layer, is described

Card 1/2

65-2-4/12
Stage-Wise Counter-Current Contact Apparatus with Fluidised Bed
of Fine-Grained Materials.

(Fig.4). Advantages in the use of step-wise counter-current fluidised layer reactors and the necessity for further improvement of their design and materials of construction are discussed. In order to speed up the development of this type of plant, VNII NP secured the co-operation of two other Institutes, with the following subdivision of research a) GIPRONEFTEMASH - design of parts of the plant and choice of construction materials, with the aim of developing complete plants suitable for various technological processes studied by VNII NP; b) MIKhM - studies of the methods and theories of the dynamics and heat transfer in plants constructed by GIPRONEFTEMASH; c) VNII NP - technological and macrokinetic investigations of various chemical processes in this type of plant and in particular for catalytic cracking, gas generation, generation of hydrogen, etc. VNII NP is co-ordinating the above investigations. There are 5 Figures and 12 References: 8 Russian and 4 English.

ASSOCIATION: VNII NP.

AVAILABLE: Library of Congress.

Comp 212

ОАО ЧКК, Д.И.

ПЛАНОВСКИЙ, А.Н.; ОРОЧКО, Д.И.

Discussion opposing K.P. Lavrovskii, A.M. Brodskii, P.I. Iak'lov.
A.N. Planovskii, D.I. Orochko against. Khim. i tekhn. topl. i masel
3 no.1:69-71 Ja '58.

(MIRA 11:2)

(Cracking process)

AUTHORS: Orochko, D.I., Professor, Melik-Akhmazarov, T.K.,
Technical Sciences, Zinov'yeva, A.P.

TITLE: Reactor Installations for Chemical Processes in the Boiling
Layer (Reaktornyye ustroystva dlya khimicheskikh protsessov v
kipyashchem sloye)

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1958, Vol III, Nr 6,
pp 694-703 (USSR)

ABSTRACT: The method of pseudo-liquifaction of finely ground reagents,
catalysts, etc by means of a boiling layer has aroused con-
siderable interest. A diagram of a usual regenerating reactor
in catalytic cracking is shown in Figure 1. In many cases the
new technological processes caused no changes in the existing
equipment (Figures 3-7). In reactors with continuous regenera-
tion of the catalysts the system may be even simplified (Figure
4-7). It is used in the highly exothermic catalytic synthesis
of hydrocarbons from CO and H₂. The unwanted circulation with-
in the reactor is eliminated by dividing it into sections.
This sectionalization complicates the reactor constructions,
but facilitates the realization of many chemical processes in

Chem 1/3

SOV/63-3-11

Reactor Installation for Chemical Processes in the Boiling Layer

industry. The introduction of the highly reactive component into the reaction zone by small portions has the same effect as sectionalization. Another method is the use of a counterflow of the solid material and the steam-gas components. It has been shown that the oxidation regeneration of catalysts under the conditions of a step-wise counterflow is accelerated 10 - 11 times. The catalytic cracking of oil distillates under the same conditions is accelerated 2 - 4 times. The heat transmission from the boiling layer of the powder-like materials to the cooling boiling water reaches 250 - 300 kcal/m² per hour and °C. Reactors with parallel sectionalization (Figure 12) have been tested in the reduction processes of ores with low sulfur content. In these reactors the equal removal of the material with low sulfur content from the various sections is most important. Diagrams of the interior installations of one-section reactors with boiling layer used in catalytic cracking are shown in Figures 13 and 14. The device for the removal of excess heat of reaction is very important

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Reactor Installations for Chemical Processes in the Boiling Layer

for satisfying operation. The described methods and installations find a large application in atomic and nuclear transformations (Figure 17). There are 17 diagrams, 1 table, and 26 references, 17 of which are Soviet and 9 English.

Card 3/3

SOV/65-59-12-2/16

AUTHORS: Kaczhev, V. I; Kasatkin, D. P. and Orochko, D. I.

TITLE: Hydrogenation of Heavy Petroleum Residues and Secondary Distillates (Gidrogenizatsiya tyazhelykh neftyanykh ostatkov i distillyatov vtorichnogo proiskhozhdeniya)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 12, pp 3 - 9, (USSR)

ABSTRACT: Methods for processing petroleum are based on the thermal and catalytic conversions of hydrocarbons. During this process, however, the yield of cracking residues and goudrons as well as distillates with lower hydrogen content, and of inferior quality gases, is increased. This is particularly undesirable during the processing of sulphur-containing petroleums. Disadvantages of destructive hydrogenation processes are pointed out. Comparative rates of liquid phase hydrogenation of various types of raw material at a pressure of 300 atms are given in Table 1. During the hydrogenation of the cracking residue the reaction volume is decreased to 41 - 56%, (in comparison to petroleum residues obtained by direct distillation) and to 57 - 80% when heavy fractions of coke distillates are hydrogenated. Technical and economical aspects of hydrogenation processing can be improved

Card 1/5

SOV/65-58-12-2/16

Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

by the modification of the liquid phase stage, and by using it in conjunction with other methods such as catalytic and thermal cracking processes. A further reduction of the reaction volume was achieved by using a one-stage liquid phase hydrogenation, and by using suspended and stationary catalysts. The output of the liquid phase hydrogenation plants was increased to 55 - 60%. The hydrogenation of unsaturated hydrocarbons, oxygen- nitrogen- and sulphur-containing compounds and of resinous substances, as well as the destructive hydrogenation with simultaneous cleavage of the molecule, can proceed at low pressures during the destructive hydrogenation process. Strongly aromaticised kerosine-gas-oil and high boiling distillates, with a high sulphur content, are obtained when using the aforementioned processes. Even more highly aromaticised products are obtained by selective extraction of oil and gas-oil fractions. At present, these products are used as additives for petroleum residues used for heating, for diesel fuels etc. which leads to a decreased yield of valuable motor fuels. These products can be converted to motor fuels by lowering their content

Card 2/5

SOV/65-58-12-2/16

Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

of aromatic sulphur compounds and unsaturated hydrocarbons. Low boiling and slightly aromatised distillates with an increased sulphur content can be converted comparatively easily to fuels by catalytic hydropurification at pressures varying between 20 - 50 atms. Results of the hydrogenation of characteristic fractions, obtained during the catalytic cracking of heavy distillates, and of extracts obtained during the selective purification of oil fractions over a stationary very active catalyst, are discussed (Table 2). Satisfactory results were obtained with tungsten- or tungsten-nickel sulphide catalysts at 200 - 300 atms pressure and at a temperature of 320 - 400°C. Hydrogenates and their fractions, obtained under these conditions, differ in their chemical composition from the starting material as they contain large quantities of naphthenic hydrocarbon (60 - 70%), small quantities of aromatic compounds (from 6 to 10 - 12%), unsaturated hydrocarbons (1 - 2%) and only about 0.1% sulphur. Fractions boiling up to 300 - 350°C have comparatively high density, low freezing temperature and high calorific value. Fractions boiling above this temperature can be used as starting material for catalytic cracking and for

Card 3/5

SOV/65-58-12-2/16
 Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

the preparation of lubricants with a high viscosity index (Table 3). The consumption of hydrogen during the hydrogenation of heavy petroleum residues and of distillates constitutes 3.0 - 4.0%/weight of the starting material. The hydrogenates can be used for diesel and reactive fuels. Properties of the fractions boiling between 200 and 300°C, obtained from hydrogenates during the processing of a highly aromatic extract, are given. Both fractions have the same composition, but different freezing temperatures, which is explained by the different structure of the compositions. Products with analagous properties were also obtained from other aromatic raw materials (extracts of aromatic hydrocarbons obtained during the catalytic cracking of gas-oil; kerosine-gas-oil fractions obtained by direct distillation and fractions obtained during pyrolysis). The qualities of the fractions can be improved by a slight variation in the process conditions; for instance during the hydrogenation of the aforementioned raw materials over a tungsten or tungsten-nickel catalyst

Card 4/5

SOV/65-58-12-2/16

Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

gasolines with low anti-detonating properties are obtained. Their octane number does not exceed 52 - 56 units. This can be increased to 84 by using a specially treated catalyst and increasing the process temperature. During this process, high pressures can be used more effectively when using active stationary catalyst than when using suspended catalyst. The degree of conversion of high boiling fractions into light products reaches 65 - 85% when increasing the rate of supplying the raw material, and is two to three times higher than during the liquid-phase hydrogenation with an iron catalyst. There are 4 Tables and 8 Soviet References.

ASSOCIATION:VNII NP

CARD 5/5

OROCHKO, D.I.; LEVINSON, S.Z.

Layout of equipment for the process of continuous adsorption re-
fining of lubricating oils and other petroleum products. Trudy

VNII NP no. 7:119-145 '58. (MIRA 12:10)

(Petroleum industry--Equipment and supplies)

(Adsorption) (Petroleum products)

COUNTRY : CZECHOSLOVAKIA
 CATEGORY : Chemical Technology. Chemical Products and Their
 Applications. Chemical Processing of Natural Gas*
 ABC. JOUR. : Ruskim., No. 17, 1958, No. 40219
 AUTHOR : Harzev, V. I.; Sosatkin, M. F.; Grecko, D. I.
 INSTITUTE : Not given
 TITLE : Hydrogenation of Heavy Petroleum Distillates and
 Residua from Thermal and Catalytic Cracking
 ORIG. PUB. : Chem. Prevl., 1958, No. 11, 571-574

ABSTRACT : Abstract of presentation made at the 1st Fuel
 Convention in Karlovi Vary (Czechoslovakia)
 pertaining to the results of an investigation,
 conducted by the Scientific Research Institute of
 Petroleum Industry (USSR, Moscow), which indica-
 ted that hydrogenation of heavy petroleum dis-
 tillates and of residua over stationary catalyst
 beds is the optimum method of their refining.

*and Petroleum, Motor and Rocket Fuels, Lubricants.

Card: 1/1

OROCHKO, D. I., PLANOVSKY, A. N.

"Principles of Improving Flow reaction Efficiency in Petrochemical Processes."

Report submitted at the Fifth World Petroleum Congress, 30 May - 5 June 1959. New York.

OROCHKO, D. I., ZHERDEVA, L. G., KARASEVA, A. A., VOZNESENSKAYA, E. V.,
ALTSHULER, A. E., KROL, B. B., AKIMOV, V. S., MIKHAYLOV, B. B., AGAFONOV, A. V.,
DRUZHININA, A. V.

"Production of Lubricating Oils and Paraffin from Sulfurous Oils
in the USSR."

Report submitted at the Fifth World Petroleum Congress, 30 May -
5 June 1959. New York City.

OROCHKO, D.I., prof.; MELIK-AKHNAZAROV, T.Kh., kand.tekhn.nauk;
ZITOV'YEVA, A.P.

Reaction vessels for chemical processes in a fluidized bed.
Khim.nauka i prom. 3 no.6:694-703 '58. (MIRA 12:2)
(Fluidization) (Chemical engineering--Equipment and supplies)

SOV/65-59-4-9/14

AUTHORS: Orochko, D.I., Adel'son, S.V., Melik-Akhnazarov, T.Kh., Mukhin, I.I. and Chepurov, N.A.

TITLE: Characteristics of the Multi-Stage Counter-Current Catalytic Cracking of Heavy Distillate Crudes (Ob osobennostyakh stupenchato-protivotochnogo kataliticheskogo krekinga tyazhelogo distillyatnogo syr'ya)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4, pp 48-53 (USSR)

ABSTRACT: Investigations of the VNII NP on the speeding up of chemical reactions made it possible to recommend a scheme for multi-stage counter-current processes which use the principle of contacting fine-grained materials with gases and vapours (REF 8). Preliminary experiments, carried out under laboratory conditions, showed that it was possible to intensify the oxidation regeneration of catalysts 9 to 12 times (Ref 8) and cracking processes 2 to 3 times (Ref 5). The lay-out of the pilot plant, used for catalytic cracking, is shown in Fig 1; this pilot plant can process 0.14 to

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0.6 tons of crudes per day. Diesel fuel and vacuum gas-oil, prepared at MNPZ from Romashkinskaya petroleum mixtures and a synthetic aluminium silicate catalyst as well as a microspherical natural clay catalyst were used during these experiments. The activity index of the synthetic catalyst was 30 to 32, that of the clay catalyst 20 and the sizes of the grains 0.20 to 0.50 mm. Results obtained during these experiments were compared with data from catalytic cracking processes of the same crudes on a pilot plant with a monosectional reactor, when the identical catalyst with much finer granulation was used (smaller than 0.2 mm) (Ref 10). The multi-stage counter-current process gave much more satisfactory results (Fig 2 and table 1). When using this method coke formation was reduced. This proved that the multi-stage counter-current catalytic cracking process is highly selective. When using this process in conjunction with a clay-catalyst (activity equals 20), for heavy crudes (table 2), the rate of the reaction is intensified 3 to 4 times. Gasoline obtained from heavy

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SOV/65-59-4-9/14

**Characteristics of the Multi-Stage Counter-Current Catalytic
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crudes, when using a synthetic catalyst, contains a larger amount of unsaturated compounds than the product from fluidized bed cracking processes. The octane number of the gasolines equals 80 and can even reach 100. The light gas-oils from the multi-stage counter-current catalytic cracking process have cetane numbers between 30 and 31, whereas the gas-oils prepared by monosectional cracking have cetane numbers of 18 to 26. The quality of the gasoline can be improved by catalytic purification over an aluminium silicate catalyst (Ref 10). The yield of light products in the one-stage catalytic cracking process of heavy distillates does not exceed 60 to 62%. This yield can be improved by using a selective 2-stage cracking process (up to 70%). The basic characteristics of the multi-stage counter-current process of the VNII NP were compared with those of a plant by GrozNII Giprogrozneft and those of the GrozNII regenerator system (Ref 4 and 6). Advantages of the multi-stage counter-

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**Characteristics of the Multi-Stage Counter-Current Catalytic
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current process are discussed and it is stressed that high octane gasoline and gaseous olefins can be prepared simultaneously. The experimental work was carried out by G.S.Shnayder, V.A.Basov, L.A.Rudnitskiy, N.P.Yepifanova, Ye.V.Leont'yeva and several investigators of the VNII NP. There are 3 figures, 2 tables and 13 Soviet references.

PRESENTED: 1st December 1958, by
S.V.Adel'son at the Conference of the GNTK USSR,
GNTK RSFSR, Scientific Technical Department NGP.

Card 4/4

SOV/65-59-4-10/14

AUTHORS: Orochko, D.I., Basov, V.A. and Melik-Akhnazarov, T.Kh.

TITLE: Method of Hydro-Dynamic Calculation of Multi-Stage Counter-Current Contact Plants of the VNII NP
(K metodike gidrodinamicheskogo rascheta stupenchato-protivotochnykh kontaktnykh apparatov VNII NP)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4, pp 54-59 (USSR)

ABSTRACT: Investigations of VNII NP have shown the suitability of the multi-stage counter-current method of contacting gases or vapours with fine-grained solids which makes it possible to speed up the rate of many fluidised-bed processes (Ref 1). The design of the plant and working method were described in an earlier publication (Ref 4). The authors now give calculations for defining the basic mechanism of the process. The experiments were carried out in a glass apparatus which comprised two fluidised-beds of fine-grained material (Fig 1). A granulated aluminium silicate catalyst was used which contained up to 80% of 0.2 to 0.5 mm fractions and 18% of < 0.2 mm fraction (viz table). Variations in the coefficient of

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Method of Hydro-Dynamic Calculation of Multi-Stage Counter-Current
Contact Plants of the VNII NP

resistance of the grid at various ratios of the diameter of the aperture and of its thickness is shown in the form of a graph (Fig 2). The length of the tube affects the efficiency of the process and, therefore, experiments were carried out with 100, 150, 175, 200 and 250 mm length tubes which had a diameter of 1.5 dp. Results of these experiments are given in Fig 4. This nomogram correlates the basic variable factors which affect the operation of the multi-stage counter-current apparatus; the linear velocity of the air current in the free sector of the apparatus; the resistance of the gas separating grids at various degrees of perforation etc. Experimental work was carried out by Yu.K.Vayl, P.A. Golosov and other members of the VNII NP. There are 4 figures, 1 table and 5 references, 4 of which are Soviet and 1 English.

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S/081/63/000/004/005/051
B102/B186

AUTHORS: Shavolina, N. V., Orachko, D. I., Sil'chenko, Ye. I.

TITLE: Some problems of macroscopic kinetics of hydrogenation of aromatic hydrocarbons in flowing operation

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 78-79, abstract 4B515 (Tr. Vses. n.-i. in-t po pererabotke nefi i gaza i polucheniya iskusstv. zhidk. topliva, no. 8, 1959, 4-19)

TEXT: In the case of small reaction rates toluene hydrogenation may be formally described by the equation of pseudomonomolecular inhibiting reactions. With high rates the hydrodynamic conditions of the experiment have an effect on the depth of transformation of the crude. A reduction in grain size of the industrial W-Ni catalyst (Cat) on the carrier causes an increase in the macroscopic rate of C_6H_6 hydrogenation, which indicates the inhibiting effect of the diffusion of reagents in the Cat pores. Inhibition is particularly intense in the first stages of hydrogenation, when the surface reaction rate is high. The mean effectiveness of the internal surface of industrial Cat (tablets 10 mm in diam, 10 mm in height)

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Some problems of macroscopic ...

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amounts to ~50-60% when hydrogenating a crude containing ~70% C_6H_6 . The effectiveness of the internal surface of the Cat may be increased by reducing the Cat grain size and by reducing the C_6H_6 concentration in the crude; it is decreased when the amount of circulating H_2 is increased.

Abstracter's note: Complete translation.]

Card 2/2

OROCHKO, D.I., ZINOV'YEVA, A.P.

Principles for the control of the operation of reactors used
in large scale catalytic processes. Kin. i kat. 1 no.1:162-169
My-Je '60. (MIRA 13:8)

1. Laboratoriya khimicheskikh reaktorov Vsesoyuznogo nauchno-
issledovatel'skogo instituta po pererabotke nefi i gazov i po-
lucheniyu iskusstvennogo zhidkogo topliva.
(Catalysis)

OROCHKO, D.I.; ZINOV'YEVA, A.P.

Developing a theory of chemical reactors. Khim. i tekhn. topliv. i
masel 5 no.4:49-53 Ap '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Chemical apparatus)

ZINOV'YEVA, A.P.; OROCHKO, D.I.

Macrokinetics of heterogeneous processes over moving-bed
catalysts. Azerb. khim. zhur. no.2:61-66 '63.
(MIRA 16:8)

OROCHKO, D.I.; SHAULOV, Yu.Kh.

In memory of Andrei Vladimirovich Frost. Zhur.fiz.khim. 37
no.1:250-251 Ja '63. (MIRA 17:3)

BULIMOV, Andrey Dmitriyevich; QROCHKO, D.I., doktor tekhn.
nauk, prof., red.; YENISHENLOVA, O.M., ved. red.

[Catalytic reforming f gasolines] Kataliticheskiy riforming
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(MIRA 17:7)

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Trudy VNI NP no. 9:268-273 '69. (MIRA 1746)

BASOV, V.A.; MELIK-AKHMAZAROV, T.Kh.; OROCHKO, D.I.

Intensification of the oxidizing regeneration of aluminosilicate
catalysts in a fluidized bed. Khim. prom. no. 4:282-289 Ap '64.
(MIRA 17:7)

BASOV, V.A.; GLAGOLEVA, O.F.; LIVSHITS, R.S.; MELIK-AKHNAZAROV, T.Kh.
ORONKO, B.I.

Chemical and technological macrokinetics of the cracking of
petroleum distillates over powdered catalysts. Azerb. khim.
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IVANYUKOV, D.V.; OROCHKO, D.I.

Catalytic processes in petroleum refining. Khim. i tekhn. topl.
1 masel 9 no.8:70-72 Ag '64. (MIRA 17:10

OROCHKO, D.I.

Role and study methods of the theory of chemical technology
as a scientific basis for the development of industrial
chemistry. Khim. i tekhn. topl. i masel 10 no.3:34-37 Mr '65.
(MIRA 18:11)

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zhidkogo topliva.

MALIK-AKHNAZAROV, T.Kh.; LIVSHITS, R.S.; OROCHKO, D.I.; SHNAYDER, G.S.

Effect of the sectionalization of the zone of reaction on the distribution and quality of end products in the catalytic cracking in a fluidized bed. Khim. i tekhn. topl. i masel 10 no.12:32-35 D '65. (MIRA 19:1)

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(Eigenfunctions) (Operators (Mathematics))

OROCHKO, Yu.B.

Behavior at infinity of the eigenfunctions of a Schrödinger operator.
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1/1

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no.3:112-122. Mr. 1965.

1. Chair of Building Materials of the Technical University
of Building and Transportation, and Architectural Working
Group of the Hungarian Academy of Sciences, Budapest (for
Tevan). 2. Chair of Reinforced Concrete Constructions of the
Technical University of Building and Transportation, Budapest
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University Medical School, Debrecen.

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(Mine hoisting) (Automatic control)

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~~BROD, IGORATII OSPOVICH~~ BROLOV, Ye I

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BROD, IGORATII OSPOVICH

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book ty) I. O. Brod i Ye. I. Brolov. 2. perer. i dop. izd.

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Otl. i. illus., diagr., maps, tables.

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1. Membre Correspondent de l'Academie de la R.P.R. (for Pora). 2. Chaire de Physiologie animale de l'Universite Babes-Bolyai et Section de Physiologie animale comparee du Centre de Recherches de Biologie de l'Academie de la R.P.R. - Cluj.

(NERVOUS SYSTEM)
(SODIUM PHOSPHATES)
(VISCERA)
(MUSCLES)
(PHOSPHORUS)
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PORA, Eugenia A., prof.; OROS, Ion; RUSDEA, Delia; WITTENBERGER, Carol; STOICOVICI
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Cluj, Catedra de fiziologia animalelor, si Statiunea biologica marina
"Ion Borcea," Agigea, Constanta. 2. Membru corespondent al Academiei
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(NERVOUS SYSTEM) (SODIUM PHOSPHATES) (RADIOISOTOPES)
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AGRICULTURE

Czechoslovakia

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CYROS J

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49-50 My '60. (MIRA 13:6)

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(Tatra Mountains--National parks and reserves)